

DEPARTMENT OF ENERGY  
FY 2002 CONGRESSIONAL BUDGET REQUEST

FOSSIL ENERGY RESEARCH AND DEVELOPMENT

FOSSIL ENERGY ENVIRONMENTAL RESTORATION

I. **Mission Supporting Goals and Objectives:**

The objectives of the Fossil Energy (FE) Environmental Restoration activities are to ensure protection of workers, the public, and the environment in performing the mission of the National Energy Technology Laboratory (NETL) at Morgantown (MGN), West Virginia and Pittsburgh (PGH), Pennsylvania sites, and at Tulsa, Oklahoma (the National Petroleum Technology Office (NPTO)), and the Albany Research Center (ARC) in Albany, Oregon. Activities include those necessary to protect workers and the public from exposure to hazardous conditions and materials (e.g., fires, carcinogens, asbestos, lead, etc.), identify and correct safety and health hazards, improve workplace monitoring and industrial safety programs, and achieve compliance with Federal, state and local safety and health requirements, including Department of Energy (DOE) initiatives. Activities also include environmental protection, and cleanup activities on-site, and at several former off-site research and development locations. DOE has received a Notice of Violation from the State of Wyoming requiring cleanup of the Rock Springs and Hoe Creek sites. Groundwater and soil monitoring/remediation is also required at the NETL and ARC sites to ensure compliance with Federal, state and local requirements.

FY 2002 performance measures are listed below that support the overarching goal of making consistent and measurable progress in reducing and eliminating injuries, incidents and environmental releases.

- Complete a series of lead and asbestos abatement actions at NETL according to schedule.
- Complete a series of indoor quality /ventilation fixes for the NETL R&D buildings according to schedule.
- Design and complete Phase II of public address systems at NETL-PGH.
- Upgrade gas alarm systems in five NETL buildings.
- Expand Rock Springs, WY oil shale retort cleanup activities at Site 12.
- Implement environmental management programs and achieve objectives and targets of ISO 14001/CEMP systems.

I. **Mission Supporting Goals and Objectives:** ENVIRONMENTAL RESTORATION (Cont'd)

- Conduct environmental monitoring and surveillance activities (air, water, wastewater) in support of permit maintenance for the NETL sites.
- Implement risk management/maintenance programs at NETL, i.e., hazardous waste management, emergency preparedness, workplace violence, fire protection, occupational medicine, and environmental quality programs.
- Conduct environment, safety and health training, according to the job hazard analyses.
- Implement new activities to meet waste minimization goals.
- Complete a series of lead and asbestos abatement actions and remove hazardous materials at ARC.
- Complete emergency and security programs at ARC.
- Continue with equipment/facility upgrades and infrastructure repairs at the ARC.
- Reduce electrical energy consumption at the ARC.
- Reduce sanitary waste from routine operations at ARC.
- Increase purchases of environmentally preferable products and services at ARC and NETL to 100% where competitively available and performance standards are met.

II. A. **Funding Schedule:**

<u>Activity</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>\$Change</u>	<u>%Change</u>
CERCLA Remedial Actions . . . . .	\$2,122	\$3,756	\$2,049	\$-1,707	-45%
RCRA Remedial Actions . . . . .	2,345	1,988	2,125	137	7%
Other ES&H Actions . . . . .	<u>5,533</u>	<u>4,234</u>	<u>5,326</u>	<u>1,092</u>	<u>26%</u>
Total, Fossil Energy Environmental Restoration . . .	<u>\$10,000</u>	<u>\$9,978</u>	<u>\$9,500</u>	<u>\$-478</u>	<u>-5%</u>

I. B. **Laboratory and Facility Funding Schedule:**

III. **Performance Summary**: ENVIRONMENTAL RESTORATION (Cont'd)

<u>Activity</u>		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>		
<u>Activity</u>		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>\$Change</u>	<u>%Change</u>
All Other .....		<u>\$10,000</u>	<u>\$9,978</u>	<u>\$9,500</u>	<u>\$-478</u>	<u>-5%</u>
Total, Fossil Energy Environmental Restoration . . .		<u>\$10,000</u>	<u>\$9,978</u>	<u>\$9,500</u>	<u>\$-478</u>	<u>-5%</u>
CERCLA Remedial Actions	Continue cleanup of Rock Springs sites. (\$952) (Army Corps of Engineers)	Continue cleanup of Rock Springs sites. (\$569) (Army Corps of Engineers)	Continue cleanup of Rock Springs sites. (\$800) (Army Corps of Engineers)			
	Continue cleanup of Hoe Creek site. (\$835) (Army Corps of Engineers)	Continue cleanup of Hoe Creek site. (\$300) (Army Corps of Engineers)	Continue cleanup of Hoe Creek site. (\$300) (Army Corps of Engineers)			
	Continue Hannah Site revegetation. (\$35)	Continue Hannah Site revegetation. (\$50)	Continue Hannah Site revegetation. (\$70)			
	No activity. (\$0)	Implement new CERCLA site investigations and project closeouts. (\$100) (TBD)	Implement new CERCLA site investigations and project closeouts. (\$200) (TBD)			
	No activity. (\$0)	Continue cleanup of soil and groundwater at former NETL liquefaction sites. (\$75) (TBD)	No activity. (\$0)			
	Perform onsite CERCLA-type remediation assessments at NETL. (\$100) (TBD)	Perform onsite CERCLA-type remediation assessments at NETL. (\$60) (TBD)	Perform onsite CERCLA-type remediation assessments at NETL. (\$30) (TBD)			

III. **Performance Summary**: ENVIRONMENTAL RESTORATION (Cont'd)

<u>Activity</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	Implement CERCLA PRP Response Activities. (\$200) (TBD)	Implement CERCLA PRP Response Activities, e.g., Connecticut coal gasification site. (\$2,602) (TBD)	Implement CERCLA PRP Response Activities. (\$649) (TBD)
	\$2,122	\$3,756	\$2,049
RCRA Remedial Actions	Continue NETL on-site remediation activities such as lead and asbestos abatement; waste minimization and pollution prevention activities; toxic chemical management program upgrades; hazardous material and waste compliance activities; and surface water compliance problems. (\$1,400) (TBD)	Continue NETL on-site remediation activities such as lead and asbestos abatement; waste minimization and pollution prevention activities; toxic chemical management program upgrades; stormwater system design; chemical management software implementation; hazardous material and waste compliance activities; surface water compliance; and site support contractor RCRA related activities. (\$1,310) (TBD)	Continue NETL limited on-site remediation activities such as waste water treatment plant upgrades; toxic chemical management program upgrades; stormwater system design; chemical management software implementation; hazardous material and waste compliance activities; surface water compliance; and site support contractor RCRA related activities. (\$1,355) (TBD)

III. **Performance Summary**: ENVIRONMENTAL RESTORATION (Cont'd)

Activity	FY 2000	FY 2001	FY 2002
	Continue RCRA cleanup actions at Albany Research Center including characterizing and resolving chemical and radioactive storage and labeling; soil and groundwater characterization; fume hood and scrubber upgrades; air emission management; and materials handling and disposal problems. (\$945) (TBD)	Continue RCRA cleanup actions at Albany Research Center including asbestos removal, characterizing and resolving chemical storage and labeling; soil and groundwater monitoring; fume hood and scrubber upgrades; air emission management; and materials handling and disposal activities. (\$678) (TBD)	Continue RCRA cleanup actions at Albany Research Center including lead and asbestos abatement, characterizing and resolving chemical storage and labeling; soil and groundwater monitoring; fume hood and scrubber upgrades; air emission management; and materials handling and disposal activities. (\$770) (TBD)
	\$2,345	\$1,988	\$2,125
Other ES&H Actions	Continue ES&H activities at the NETL sites requiring corrective action and related activities including monitoring and surveillance; indoor air quality fixes; resolution of life safety code deficiencies; fire protection compliance actions; ergonomics; training improvements; structural safety fixes; and emergency preparedness upgrades. (\$4,296) (TBD)	Continue ES&H activities at the NETL sites requiring corrective action and related activities including monitoring and surveillance; indoor air quality fixes; resolution of life safety code deficiencies; fire protection compliance actions; ergonomics; training improvements; structural safety fixes; emergency preparedness activities and site support contractor ES&H related activities. (\$3,408) (TBD)	Maintain regulatory programs (emergency management, safety, and fire protection). (\$4,300) (TBD)

III. **Performance Summary**: ENVIRONMENTAL RESTORATION (Cont'd)

Activity	FY 2000	FY 2001	FY 2002
Other ES&H Actions (Cont'd)	Initiate ES&H program activities at NPTO including emergency management and drills, training, etc. (\$20) (TBD)	Continue ES&H program activities at NPTO including inspections, emergency management and drills, training, etc. (\$15) (TBD)	Continue ES&H program activities at NPTO including inspections, emergency management and drills, training, etc. (\$15) (TBD)
	Initiate site-wide safety and health corrective actions at Albany Research Center including structural upgrading; monitoring and surveillance; indoor air quality and ventilation upgrades; fire suppression systems; and training. (\$1,107) (TBD)	Continue site-wide safety and health programs and corrective actions at Albany Research Center including monitoring and surveillance; indoor air quality and ventilation upgrades; medical and industrial hygiene; fire detection and suppression systems; walking surface repairs; personal protective equipment maintenance; and training. (\$711) (TBD)	Continue site-wide safety and health programs and corrective actions at Albany Research Center including monitoring and surveillance; indoor air quality and ventilation upgrades; medical and industrial hygiene; fire detection and suppression systems; walking surface repairs; personal protective equipment maintenance; and training. (\$911) (TBD)
	Technical and management support. (\$110)	Technical and management support. (\$100)	Technical and management support. (\$100)
	\$5,533	\$4,234	\$5,326
Fossil Energy Environmental Restoration, Total	\$10,000	\$9,978	\$9,500